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AQUAPANEL® Cement Board Outdoor is PROVEN in all sorts of exterior projects, allowing architects to express their vision whilst still meeting stringent building and technical criteria.



Build on our strength

Looking for a better way to design exteriors?



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2008
UAE / 10 - 01



AQUAPANEL® | *Cement Board Outdoor*

Designing exteriors involves many physical and technical building requirements as well as the "look" you want to achieve. Add to that the need for durability and impact-resistance, and technical considerations such as fire resistance, noise and thermal insulation, and you have a complex project, which has traditionally been fulfilled using concrete or brick and block.

Now, AQUAPANEL® Cement Board Outdoor from Knauf USG Systems offers a new method of construction for even the most demanding of architectural plans. As a dry panel system, it allows you to bring dry lining advantages from interior to exterior projects. It is light and flexible, so it enables new design possibilities such as curved walls and complex ceiling constructions. And because it's an innovative cement board technology, it has similar characteristics to brick and block including fire resistance, sound, and thermal insulation, as well as durability.

The AQUAPANEL® Cement Board Outdoor system offers you design opportunities combined with dry lining advantages and technical advantages. It can be used for exterior walls - ventilated systems or water-managed (directly-applied) systems - as well as for exterior ceilings, soffits, and in façade renovations.

- **More design possibilities:** architects and contractors now have more creative freedom with this new flexible system. Panels can be used to create a monolithic look, curved wall features (as little as 1 m bending radius) and complete ceiling constructions
- **Faster, easier construction:** as a dry lining system, it is fast and easy to install. There are no time-consuming processing methods, no special tools, and no drying times. The result? On-site installation costs are low
- **Lightweight:** 35 kg / m² vs. 100 kg / m² (compared with brick and block)
- **Water resistant:** AQUAPANEL® Cement Board Outdoor is 100% water-resistant so there is no swelling or loss of stability
- **Durable:** AQUAPANEL® Cement Board Outdoor provides a solid, dry base that can withstand the extreme weathering effects of wind, rain and snow
- **Fire resistant:** Non combustible; A1 according to EN 13501
- **Systems approach:** AQUAPANEL® Cement Board Outdoor gives the confidence of a complete solution. As well as the panel and standard accessories, the AQUAPANEL® Cement Board Outdoor system can also include AQUAPANEL® finishing systems for surface treatment.

AQUAPANEL® | *Cement Board Outdoor*

All the benefits of a dry panel system with the strength of brick and block

AQUAPANEL® Cement Board Outdoor

Why is it so special?

AQUAPANEL® Cement Board Outdoor gives architects and contractors a proven durable dry lining alternative with the strength of brick and block.

Complete exterior wall construction and finishing

- A significant advance in the area of cement board technology
- Water resistant - no swelling or loss of stability
- Resistant to moisture and weathering
- Freeze-thaw cycle proven
- Stable and durable Portland cement construction
- Can be curved
- Impact resistant
- Safe and hygienic material
- Non-combustible



Productivity benefits

- No need for time-consuming processing methods and special tools
- Unique score and snap for faster, easier installation
- EasyEdge™ – the straight shockproof edge
- Dry lining technology means drying times are reduced
- Less working time required, lower installation costs on-site

A complete system

- Available in various sizes
- Meets European standards
- Comprehensive international after-sales service and support
- Proven complete systems from a single source

AQUAPANEL® Cement Board Outdoor

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Technical data

Physical properties

Width (mm)	900
Length (mm)	1200/1250/2400/2500
Thickness (mm)	12.5
Min. bending radius (m) for 900 mm wide board	3
Min. bending radius (m) for 300 mm wide strip	1
Weight (kg/m²)	approx. 16
Dry density (kg/m³)	approx. 1150
Flexural strength (N/mm²)	≥ 6.2
pH-value	12
Modulus of elasticity (N/mm²)	approx. 4000 - 7000
Thermal conductivity acc. to DIN 4108 λ _s (W/(m·K))	0.36
Thermal expansion (10-6/K)	7
Water vapour diffusion resistance μ (-)	19
Change in dimensions from dry to water-saturated (%)	0.1
Building Material Class	Non-combustible; A1 according to EN 13501

AQUAPANEL® Cement Board Outdoor

Create stunning exteriors

ALL THE BENEFITS OF A DRY PANEL SYSTEM WITH THE STRENGTH OF BRICK AND BLOCK



AQUAPANEL® Cement Board Outdoor

More design opportunities

AQUAPANEL® Cement Board Outdoor

Create curved areas

Monolithic look, clear lines and exciting design options

Many architects are responding to the move towards clearer lines which create a smooth, apparently seamless surface.

The AQUAPANEL® Cement Board Outdoor system allows you to create a monolithic look that encourages the eye to focus on design details. When used with AQUAPANEL® exterior plaster systems, you can achieve additional effects.

For example, AQUAPANEL® Exterior Basecoat – white results in a white colour and smooth surface and gives the best appearance for lightly coloured finishes. Alternatively, AQUAPANEL® Exterior Mineral Finish is a decorative finishing

plaster for application on top of AQUAPANEL® Exterior Basecoat either as a smooth floating finishing render or freely structured. The product has improved fire resistance (A1 classification) and is available in 212 colour shades.

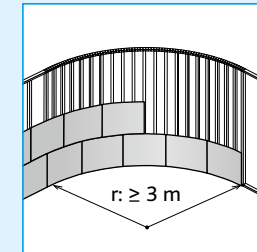


The AQUAPANEL® Colour Fan shows the wide range of colour options for AQUAPANEL® finishing plasters (212 different shades).



Ideal for curved walls

Curved walls offer the architect much greater scope for emphasis and drama when designing the exterior of a building. AQUAPANEL® Cement Board Outdoor can easily be curved for applications such as arches, valleys and other curved wall features.



AQUAPANEL® Cement Board Outdoor can be used to create very smooth curves (as little as 1 metre bending radius).

Board size:
1200/2400/1250/2500 x 900 mm
Minimum bending radius ≥ 3 m

Strip size:
1200/2400/1250/2500 x 300 mm
Minimum bending radius ≥ 1 m

Your perfect partner

Knauf USG Systems' vision is to inspire people to create building advantages with cement board. We have many years of experience in working with architects and contractors on outdoor projects. Take advantage of this experience and call us to discuss your specific project needs. Also contact us for details of specific constructions, installation advice, or to obtain a copy of the AQUAPANEL® Cement Board Outdoor system brochure.

